Chapter 20
CATALOGING SYSTEMS INTERFACE WITH SC&D

NOTE: AFMC forms and publications referred to in this chapter are for AFMC use only and are not available for general Air Force use.

20.1. General.

20.1.1. Stock list change (SLC) data will come from a single source, the D043D system, on a single set of document identifiers into the SC&D system. A group delete transaction will precede SLC for an interchangeable and substitute (I&S) group of items to ensure compatibility for the entire I&S group. Items with an X-File relationship will be provided to SC&D as part of the data records.

20.1.2. One user registration for each Air Logistics Center (ALC) for each National Stock Number (NSN) will be required in order for the cataloging system to provide required data to the correct ALC. Management codes will be contained in the "XAG" inquiry/registration transaction to provide for initial registration for both prime and retail/storage site requirements.

20.1.3. A standard set of data will be transmitted from the cataloging systems to the registered ALC for each registered NSN. The set of data provided would contain data records according to the ALC registered with the cataloging system. There are two data packages. One will support only wholesale requirements, and the other will support the retail/storage site operations. The wholesale data package string is required for storage site operation, even though the item is managed at another site.

20.2. Cataloging Interface Details.

20.2.1. "A" Data package to SC&D from the D043D system:

20.2.1.1. XAA -- Catalog Management Data (CMD) and Nomenclature data.

20.2.1.2. XAB/D -- I&S Group Delete.

20.2.1.3. XAB/F -- I&S Data, Air Force (AF).

20.2.1.4. XAB/N -- I&S Data, Non-AF.

20.2.1.5. XAB/X -- X-File Data.

20.2.1.6. XAC -- Decapitalization Notice.

20.2.1.7. XAD -- Cross-reference Data.

20.2.1.8. XAK -- Re-transmission of SLC Data Package.

20.2.1.9. XBB -- Non-Consumable Item Materiel Support Code (NIMSC) Data.

20.2.2. "B" Data Package to SC&D from the D043D system:

20.2.2.1. BDR -- Reparable Item Movement Control System (RIMCS) Data.

20.2.2.2. BDD -- Defense Inactive Item Program (DIIP) Data.

20.2.2.3. BDE -- DIIP Data Follow-up.

20.2.2.4. DEE -- Asset Status/Reports.

20.2.2.5. K*F -- Transportation Data (Non AF Items Stored at ALC).

NOTE: * = A (ADD), C (CHANGE), D (DELETE).

20.2.3. Transactions from SC&D to the D043D system:

20.2.3.1. XAG -- Inquiry/Registration Transaction.

20.2.3.2. XAK -- Request for SLC Re-Transmission.

20.2.3.3. BDG -- Reply to DIIP "BDD" Transaction.

20.2.3.4. BDH -- Reply to DIIP "BDE" Transaction.

20.2.3.5. BDT -- Transportation Data.

20.2.3.6. BAS -- Provide Wholesale Manager Designator Code.

20.3. Reconciliation.

20.3.1. The cataloging systems have a process for revalidating quantities of records with Defense Logistics Service Center (DLSC) on a weekly basis. Volume of data in the cataloging/DLSC revalidation process is currently set at approximately 50,000 items per week when no action has been recorded for that NSN for over six months. While those items are identified for revalidation, the cataloging system will "push" the new/revalidation data on those same NSN records to the registered SC&D sites. This will maintain consistency of records without an annual mass processing of data.

20.3.2. If the retail/storage site in SC&D is over the prescribed time frame (14 months, for example) for update or revalidation/action, SC&D will produce a "new establish" "XAG" transaction for that item because the using ALC registration has been dropped for that NSN. The "XAG" transaction will contain coding prescribed in "XAG" processing as determined in the SC&D User Grid.

20.3.3. The responsible ALC will be registered as a prime NSN user in the cataloging system. NSN and SLC data will automatically be provided to that user.

20.4. Retail User Registration.

20.4.1. Retail users are established in SC&D by using the "ZFA" Master Item Record Establish (RAXH) screen (Chapter 9). This "ZFA" transaction triggers the output of an "XAG" query/registration to the D043D system. The D043D system queries the D043 system and if unmatched, an "XAA" (with "U" for unmatched) is returned to the site, and a query is established in the D046 system, which queries DLSC. The reply from DLSC to the D046 system is forwarded to the requesting site under a "BVD" document identifier with action codes 01 through 13 (chapter 21).

20.4.2. Upon receipt of a "BVD" action code "04," the D046 system sends a "LTI" transaction to DLSC to have the AF cataloging data forwarded to the D043 system. The D043 system will then process and forward it through various systems to the proper site.

20.4.3. Upon receipt of a "BVD" action code 01 and 02, the "XAA" will be changed to a "BVD" with a file maintenance code of "U." The new NSN in the "BVD" will replace the queried NSN, and a cross-reference history record will be created. Also an "XAG" transaction will be created and forwarded to the D043D system

for the new NSN.

20.4.4. Upon receipt of a "BVD" action code "05-13," the data contained in the "BVD" will be printed out on a stuffer for manual action by the Directorate of Distribution Item Manager.

20.4.5. NSNs on the Management of Items Subject to Repair (MISTR) file, which does not match the Items record, will be queried using a "XAH" document identifier to the D043D system. Responses which match the D043 system master will be recorded as retail users for that site. Matched responses will be returned to the submitting ALC on an "XAA" transaction. Unmatched responses will be dropped from the unmatched MISTR file.

20.5. Processing for Individual Document Identifiers.

20.5.1. The "XAG" format has been revised to include a change code field for registering and changing the site registration and a retail user indicator field for registering and deleting the retail user at that site. An "XAG" transaction will be initiated at the ALC whenever a transaction being processed does not match the Items record. An ALC submitting an "XAG" query will automatically be registered as a user of that NSN. Coding within the transaction will identify the processing function with the requirement.

20.5.1.1. Initial registration of an ALC on an NSN will contain a change code "A" and a retail user indicator of "N". It will require the "A" data package.

20.5.1.2. When an ALC retail user is requesting registration on a NSN the initial registration will contain a change code "A" and the retail user indicator "Y." It will require the "A" and "B" data packages.

20.5.1.3. To add a retail user to a NSN of a registered ALC, use change codes "C" and retail user indicator "Y." This will require the "B" data package.

20.5.1.4. To delete a retail user from a NSN of a registered ALC, use change code "C" and retail user indicator "N".

20.5.1.5. To delete an ALC as a registered user from a NSN, use change code "D." This transaction will not process in the cataloging system unless the retail user has been previously deleted. This action will only delete the ALC as a user. To delete the NSN from the SC&D system, use the Zero Balance, Items Record or MIC Detail Delete (FMSD) screen (Chapter 9).

20.5.2. The "XAA" document identifier will be used to update the Items record with CMD and NIMSC data.

20.5.2.1. An "XAA" transaction on individual NSNs will be forwarded by the D043D system to all registered ALC sites of a current NSN each time an SLC action alters any element of data included in the "XAA" format. If a query is received on an NSN, the entire data package will be provided to the ALC making the inquiry. If the NSN is I&S related, a data package for each member of the I&S group will be provided to the ALC making the inquiry. If the NSN is included in the DLSC reconciliation during the SLC cycle, the entire package will be provided to all ALCs registered against that NSN. If the reconciled NSN is I&S related, a data package for each member of the I&S group will be provided to all ALCs registered against any item in that I&S group.

20.5.2.2. In response to an "XAK" transaction, resubmit to the D043 system the original SLC data package.

20.5.3. The SLC document identifier "XAB" will be used to update the Items and the X-File records with I&S Group data and X-File data.

20.5.3.1. An "XAB"/D transaction will be sent to all ALCs registered against the master NSN any time a group is being added, changed, or deleted. This will cause I&S data, AF and other services, to be deleted from all NSNs that are members of that I&S group. This transaction will be included in the data package to be provided

to the ALC in response to queries and reconciliation logic.

20.5.3.2. An "XAB"/F transaction will be sent to all ALC sites registered on any item in the I&S group any time a new group is added or an existing group is changed. Every item in the affected group will be included in the SLC data package. If an ALC is registered on only one item in the I&S group, the ALC site will be registered for all items within that I&S group and sub-groups. This transaction will be included in the data package provided to the ALC in response to queries and reconciliation logic. If the NSN in this transaction shows the AF as Primary Inventory Control Activity (PICA) and other services as Secondary Inventory Control Activity (SICA), an "XAB"/N must accompany this transaction. An "XAB"/N transaction will never be provided on items where the AF is the SICA.

20.5.3.3. An "XAB"/N transaction will be sent to all ALC sites registered on any item in the I&S group any time an "XAB"/F transaction is provided where the AF is the PICA. If any element of an I&S Group is changed, where the AF is the PICA, a "XAB"/D/F/N on every item remaining in the group will be provided. A "XAB"/N transaction will be included in the data package to be provided to the ALC in response to queries and reconciliation logic for AF managed groups (PICA) only.

20.5.3.4. An "XAB"/X transaction will be sent to all ALCs that are registered on the item identifier NSN. It will also be sent to the ALC that is MMC/FSC prime manager on that item whether that ALC site is registered or not. After the initial load of the X-File data, only "XAB"/Y transactions will be provided for items being added, changed or deleted on the X-File. These transactions will be included in the data package for queries and when reconciliation data is sent to the ALCs for these items.

20.5.4. The "XAD" document identifier will be used to update the Stock Number cross-reference record with cross-reference data. An "XAD" transaction will be sent to all ALC registered site users of the current NSN when added to the Items record, when a query is received, or when a DLSC reconciliation occurred on the current NSN. All ALCs registered on the NSN being changed will automatically be registered on the replacing NSN. An "XAD" with an Index File Maintenance Code "D" will be provided when it is time to delete the cross-reference record.

20.5.5. Document identifiers "XXX," "BVS," and "XXR" will be used during the processing of Triple "X" queries.

20.5.5.1. Document identifier "XXX" (Triple "X" query) will be created when a requisitioned item is replaced with a substitute item, and this relationship is not shown in the I&S record, the I&S Stock Number record on the X-File Record.

20.5.5.2. While processing the query, one of the following transaction replies will be returned to the submitter.

20.5.5.2.1. "BVS"/J -- Query matches an I&S Group. One transaction will be created for each item in that group.

20.5.5.2.2. "BVS"/X -- Query matches an existing X-File record.

20.5.5.2.3. "BVS"/R -- Query matches an existing R-File record.

20.5.5.2.4. "BVS"/_ (blank) -- Query does not match any of the records. In addition, the D046 system will generate a transaction for the D043 system to build an R-File record from the two NSNs in the query with the reply code blank. At the same time an "XXI" transaction with the two NSNs in the query is forwarded to the I&S technician for research. This step (paragraph 20.5.5.2.4.) and 20.5.5.3. (below) always go together.

20.5.5.3. Upon receipt of the "XXI" transaction received from the D046 system, the I&S technician will research the two NSNs from the query to determine I&S relationship. An "XXR" transaction is created and

returned to the submitter with the results of the research shown in the reply code and explanation of reply fields. At the same time an "XAF"/R transaction is forwarded to the D043 system to update the R-File, showing the research results with the two NSNs from the original Triple "X" query.

20.6. Interchangeable and Substitute Groups.

20.6.1. I&S groups consist of items that are similar physically and functionally. I&S group items may be substituted for one another and used to do comparable work. After performing these similar tasks, I&S group items must consistently provide the same quality of performance. Each group is also designed to contain items that have management data compatibility.

20.6.2. I&S groups for supply items are loaded and maintained on computer through the D043B system. The D043B system contains three files:

20.6.2.1. The D043B system "J" contains items that are completely compatible.

20.6.2.2. The D043B system "X" shows relationships that contain incompatible management data or are not completely comparable in functional performance.

20.6.2.3. The D043B system "R" contains a record of responses to "XXX" inquiries. The NSNs and their relationships recorded in the D043B system files "J" and "X" are published in the USAF I&S group stock list (SL-ISG). Data from these three files are sent through Stock Number Users Directory (SNUD) in "BDS"/"BVS" format to registered users.

20.6.3. The "J" File. This file contains groups of items that are completely interchangeable (or suitable substitutes) and contains compatible management data. These groups of items are organized as follows:

20.6.3.1. Subgroups. Each group of items is divided into subgroups. Each subgroup is identified by a sequentially assigned alphabetical code (AA, AB, AC, etc.). The first subgroup (AA) indicates the least preferable item or group of like items; each successive subgroup indicates a more desirable item or group of items.

20.6.3.2. Parts preference code. The order in which items in the same subgroup are used is controlled by the parts preference code (AAA, AAB, AAC, etc.). Items with a restrictive application are assigned a numeric parts preference code (AA2, AA3, AA4, etc.).

20.6.3.3. Order of use code. Combining the subgroup and parts preference code forms this code. The order of use code indicates a one-way relationship between a subgroup and NSNs in a more preferable subgroup:

20.6.3.3.1. Interchangeable items. The first two positions indicate the items are fully interchangeable when placed in the same subgroup within the same I&S group (AA). The third position (A, B, and C) indicates the order of use for the interchangeable items.

20.6.3.3.2. Substitute items. The first two positions indicate the items are suitable substitutes when placed in different subgroups within the same I&S group (AAA, ABA, etc.). One-way interchangeable items are also coded in this manner.

20.6.3.3.3. One-way interchangeable conditions are explained as follows; Customer requirements for items in subgroup AA(x) can be satisfied in all conditions from the items in subgroup AB(x) but requirements for items in subgroup AB(x) cannot be satisfied from items in subgroup AA(x).

20.6.3.3.4. The "X" File. This file contains relationships between items that are not completely comparable in functional performance or that contain incompatible management data. These conditions are explained as follows:

20.6.3.3.4.1. Limited substitute relationships. Items in this category cannot be issued freely or used in place of older items or items with less performance capabilities. However, such items can be used as suitable substitutes at certain bases.

20.6.3.3.4.2. I&S relationships. Items in this category cannot be recorded in the "J" file because the relationships contain incompatible management data or the AF is not a recorded user of an item.

20.6.4. The "R" file. This file contains a record of responses to base "XXX" inquiries. Relationships in this file are not contained in the "X" or "J" file. They may, however, be moved to the "X" or "J" files after Defense Logistics Information Service (DLIS-F) actions are completed. DLIS-F will delete relationships that are moved from this file to the "X" or "J" file.